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硕 士 学 位 论 文

生态供应链的形成机制及稳定性研究

A Study on the Formation Mechanism and Stability of Ecological Supply Chain

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摘要

随着全球市场竞争及环境恶化的加剧，对生态供应链管理的研究日益重要。国内外对生态与产业结合相关议题的研究主要侧重在生态工业系统、生态工业园和逆向、闭环及绿色供应链管理，把生态供应链管理作为独立的管理模式进行研究较少。本文通过分析生态供应链的组成要素、要素的耦合及生态供应链管理下的企业行为，从演化角度研究了生态供应链的形成机理，并从组建及运作两个层次探讨了生态供应链的稳定性。

本论文主要包括下列几章内容：在第二章中，对生态供应链的概念及组成要素进行明确而清晰的定义，将生态供应链与生态工业系统、闭环、绿色供应链等有效的区分开来；在第三章中，从商业运作关注点转移角度研究了企业在效率与环境保护间的博弈过程，揭示了生态供应链的形成机理；在第四、第五章中，从环境状态熵、供应链决策、次链物质互换、利润分配等方面建立了定量模型，研究了生态供应链组建及运行的稳定性。

本文研究结论为制造业提供一种有效的可持续发展的现代制造管理模式，对生态供应链管理的实践提供一定的理论支持和指导。

关键词：生态供应链；形成机理；稳定性

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ABSTRACT

Along with the aggravation of the global market competition and environment deterioration, the research on ecology supply chain management becomes more and more important. Domestic and foreign researches on the mix subject of ecology and industry mainly lay emphasis on the ecology industrial system, ecology industry parks and reverse, closed loop and green supply chain. It is very few to take the ecology supply chain management as an independent management pattern to conduct research. Through analyzing the composition factors, the factors coupling and the enterprise behavior of the ecology supply chain, this dissertation analyses its formation mechanism from evolution perspective, and discusses its stability in building and operation levels.

This dissertation mainly includes the following chapters: in the second chapter, it gives a clear definition of the concept and structure of the ecology supply chain which differentiates the ecology supply chain from the ecology industrial system, the closed loop and green supply chain effectively; In the third chapter, it proposes the game process between the efficiency and the environment from the commercial operation focus shifting perspective, and reveals the formation mechanism of the ecology supply chain; In the fourth and fifth chapters, it establishes quantitative models based on environment entropy, supply chain decision-making, material exchanging on the inferior chain and profit distribution. It studies the stability of the building and operation of the ecology supply chain management, which provides theoretic support and the instruction for the practice of the ecology supply chain management.

Key words: Ecology Supply Chain; Formation Mechanism; Stability

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